



PTO/SB/08A (10-01)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Compleat if Kn wn</b>			
		Applicati n Number	10/612,171		
		Filing Date	7/1/2003		
		First Named Inv ntor	Tosaya, Carol A.		
		Art Unit			
		Examiner Name			
Sheet	1	of	4	Attorney Docket Number	02017A

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	2	US-5,478,857	12/26/1995	Clemens et al.	Prior Art
	3	US-5,750,349	05/12/1998	Suzuki et al.	Prior Art
	4	US-5,837,853	11/17/1998	Takashima et al.	Prior Art
	5	US-5,888,051	03/34/1999	Bergeron, Jr. et al.	Prior Art
	6	US-5,889,042	03/03/1999	McLean et al.	Prior Art
	7	US-5,955,317	09/21/1999	Suzuki et al.	Prior Art
	8	US-5,982,483	10/05/1999	Nitsch et al.	Prior Art
	9	US-6,028,068	02/22/2000	Unger	Prior Art
	10	US-6,043,224	03/28/2000	Lee et al.	Prior Art
	11	US-6,080,582	06/27/2000	Alkon et al.	Prior Art
	12	US-6,190,691	02/20/2001	Mak	Prior Art
	13	US-6,300,085	10/09/2001	Alkon	Prior Art
	15	US-5,908,480	11/09/1999	Rubenstein et al.	Prior Art
	16	US-6,264,625	07/24/2001	Rubenstein et al.	Prior Art
	17	US-6,383,159	05/07/2002	Saul et al.	Prior Art
	20	US-6,001,331	12/14/1999	Caprathe et al.	Prior Art
	21	US-3,942,531	03/09/1976	Hoff et al.	Prior Art
	22	US-4,311,147	01/19/1982	Hausler et al.	Prior Art
	23	US-4,486,680	12/02/1984	Bonnet et al.	Prior Art
	24	US-4,526,168	07/02/1985	Hassler et al.	Prior Art

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)			
	1	WO 95/19178 PCT	07/20/1995	Research Foundation for Mental Hygiene	Prior Art
	18	WO 97/26919 PCT	07/31/1997	Warner-Lambert Co.	Prior Art
	19	WO 97/41856	11/13/1997	MA Institute of Technology	Prior Art
	46	WO 94/23308 PCT	10/13/1994	General Electric	Prior Art
	48	WO 98/07373	02/26/1998	Brigham & Women's Hospital	Prior Art
	55	WO 02/09608 A2	02/07/2002	Brigham & Women's Hospital	Prior Art
	56	EP 1 175 920 A1	01/30/2001	Board of Regents, University of Texas	Prior Art

Examiner Signature		Date Considered	9/9/06
--------------------	--	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
\*Applicant's unique citation designation number (optional). \*See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.  
\*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \*Applicant is to place a check mark here if English language Translation is attached.  
Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB number.

Substitute for form 1449B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Application Number	10/612,171		
		Filing Date	7/1/2003		
		First Named Inventor	Tosaya, Carol A.		
		Group Art Unit			
		Examiner Name			
Sheet	2	of	4	Attorney Docket Number	02017A

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
JK	14	DeMattos, Ronald B., et al., "Brain to Plasma Amyloid- $\beta$ Efflux: A Measure of Brain Amyloid Burden in a Mouse Model of Alzheimer's Disease", <u>Science</u> , Vol. 295, 22 March 2002, pp. 2264-2267.	
	32	Miller, Douglas L. and Jawaid Qudus, "Lysis and Sonoporation of Epidermoid and Phagocytic Monolayer Cells by Diagnostic Ultrasound Activation of Contrast Agent Gas Bodies", <u>Ultrasound in Medicine and Biology</u> , Vol. 27, No. 8, 2001, pp. 1107-1113.	
	47	Malcolm, A.L. and G.R. ter Haar, "Ablation of Tissue Volumes Using High Intensity Focused Ultrasound", <u>Ultrasound in Medicine and Biology</u> , Vol. 22, No. 5, 1996, pp. 659-669.	
	51	Clement, G. and K. Hynynen, "Micro-Receiver Guided Transcranial Beam Steering", <u>IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control</u> , Vol. 49, No. 4, IEEE Institute of Electrical and Electronics, pp. 447-453.	
	52	Behrens, S., et al, "Transcranial Ultrasound-Improved Thrombolysis: Diagnostic vs. Therapeutic Ultrasound", <u>Ultrasound in Medicine and Biology</u> , Vol. 27, No. ER12, 2001, Pergamon Press, pp.1683-1689.	
	57	Chen et al, "MRI Study of Immediate Cell Viability in Focused Ultrasound Lesions in the Rabbit Brain", <u>Journal of Magnetic Resonance Imaging</u> , Vol. 13, 2001, pp. 23-30.	

Examiner Signature		Date Considered	9/1/06
--------------------	--	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>Substitute for form 1449A/PTO</b>				<b>Compleat if Known</b>	
				Application Number	10/612,171
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Filing Date	7/1/2003
				First Named Inventor	Tosaya, Carol A.
				Art Unit	
				Examiner Name	
Sheet	3	of	4	Attorney Docket Number	02017A

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
AK	25	US-4,617,931	10/21/1986	Dory	Prior Art
	26	US-4,721,106	01/26/1988	Kurtze et al.	Prior Art
	27	US-5,209,719	05/11/1993	Baruch et al.	Prior Art
	28	US-5,269,291	12/14/1993	Carter	Prior Art
	29	US-5,318,014	06/07/1994	Carter	Prior Art
	30	US-5,431,663	07/11/1995	Carter	Prior Art
	31	US-5,709,676	01/20/1998	Alt	Prior Art
	33	US-4,658,828	04/21/1987	Dory	Prior Art
	34	US-33,590	05/21/1991	Dory	Prior Art
	35	US-5,080,102	01/14/1992	Dory	Prior Art
	36	US-5,150,712	09/29/1992	Dory	Prior Art
	37	US-5,247,935	09/28/1993	Cline et al.	Prior Art
	38	US-5,291,890	03/08/1994	Cline et al.	Prior Art
	39	US-5,323,779	06/28/1994	Hardy et al.	Prior Art
	40	US-5,327,884	07/12/1994	Hardy et al.	Prior Art
	41	US-5,647,760	08/19/1997	Ying et al.	Prior Art
	42	US-5,873,845	02/23/1999	Cline et al.	Prior Art
	43	US-6,074,352	08/13/2000	Hynynen et al.	Prior Art
	44	US-6,088,613	07/11/2000	Unger	Prior Art
	45	US-6,135,971	10/24/2000	Hutchinson et al.	Prior Art

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
			</			

Examiner Signature	<i>John M</i>	Date Considered	9/9/06
-----------------------	---------------	--------------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Compl te if Kn wn</b>	
		Application Number	10/612,171
		Filing Dat	7/1/2003
		First Named Invent r	Tosaya, Carol A.
		Art Unit	
Examiner Name		Attorney Docket Number	02017A
Sheet	4	of	4

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
CRL	49	US-5,752,515	05/19/1998	Jolesz et al.	Prior Art
	50	US-2000/0038086 A1	03/28/2002	Hymnen et al.	Prior Art
	53	US-6,139,819	10/31/2000	Unger et al.	Prior Art
	54	US-6,004,257	12/21/1999	Jacobson	Prior Art
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)					

Examiner Signature	<i>[Signature]</i>	Date Considered	9/9/06
--------------------	--------------------	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.  
<sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.  
Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.